

Laser Optics Lab

Fundamentals Vocabulary List

1. Laser
2. Ultraviolet
3. Infrared
4. Wavelength ranges for IR, VIS, UV in nm and μm
5. CW
6. Pulse laser (energy calculations too)
7. Specular and diffuse reflection
8. Beam splitter
9. Beam hazard
10. Non-beam hazards
11. Laser classifications (the five classes and criteria for each)
12. Photo detector
13. Coherence
14. Approximate wavelengths for colors red, green, blue, violet
15. Stimulated emission
16. Photon
17. Interference pattern
18. Focal length
19. Real image
20. Virtual image
21. Concave
22. Convex
23. Plano
24. Cylindrical lens
25. Beam stop
26. Collimated beam
27. Angle of divergence
28. Index of refraction
29. Population Inversion
30. Translation stage
31. Rotation stage
32. Gimbal mount
33. Objective lens
34. Spatial filter
35. Diffraction
36. Refraction
37. Interference pattern